20-5-21/48

Existence of a Higher CO Oxide

The possible value of the frequency corresponding to the fluctuations of the C = O-binding can be roughly calculated according to the condition of equality of the power constants for this binding in 400x- and HCOOH molecules and amounts to approximatively 1660 cm-1. The authors do not give here the full emission spectrum of the diffusion flame of CO in O2 which was observed in the infra-red spectrometer IKS-11. In the frequency range of from 5000 to 400 cm 1 it contains up to 100 lines and stripes which are due to radiation of CO, OH,  $CO_2$ ,  $H_2O$  and  $HO_2$ . If CO,  $O_2$  and  $N_2$  are dried carefully only stripes and lines of 60 and 60 appear in the spectrum of the flame. If, however, the picture of the flame basis is directed to the slits of the spectrometer (not higher than 3,5 mm from the burner in the case of a full height of the visible cone of from 15 to 17 mm) in the spectrum appears a stripe with a frequency of the intensity maximum at  $V = 1615 \text{ cm}^{-1}$  which is not effected by the radiation of one of the mentioned particles. Though the authors were first inclined to identify this stripe with NC2stripes it does not vanish when the flame is blown off with anhydrous oxygen. On the contrary, this stripe becomes more intensive by the manifold. On the strength of this analysis of the obtained experimental results the authors concluded that the carrier of the stripes  $\Rightarrow$  = 1615 cm<sup>-1</sup> is a higher oxide CO<sub>3</sub>. In the spectrum

Card 2/3

51... (42-26/28 Tagirov, R. B.

AULI-ULL: On the Method of Measurement of the Spectral Goefficient والمستالين المستحدث

of Reflection of Mirrors. (A metodike izmer/miya

spektral'nogo koeffitsiyenta otrazheniya seriml )

PERIODICAL: Optika i Spektroskopiya, 1958, Vol.IV, Dr.2, pp.278-279

(h&&U)

To measure the opectral reflection coefficient of A Liveria Line

mirrors in the infrared an IES-11 spectrometer was used in the  $1-25~\mu$  region without a reflection standard. Motallic or other coatings those reflection coefficient was assured here deposited on the surface of a concave

class lens with a 8-10 cm radius of curveture. Lodified carborundum light cource of special consumption chown in Fig.1 was used. This cource had an additional window diametrically opposite the sain window. The ource could be displaced perpendicularly to the optical

axis of the instrument used by a distance of 2.7-7 mm. The apparatus used is shown in Fig. 2. The source 1 is immed by means of a plane mirror 2 and a concave mirror 4 on the monochromator shit 3 of A spherital mirror 0, whose coefficient of reflection is to be measured, is

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Great most of the active ment of the Operator Operations of Reflection of Mirrors.

placed behind the course at a distance equal so the radius of curvature of the reflecting surface of 0 in such a way as to make the centre of the airror 0 coincide with the optical axis of the apparatus. When the airror 0 is correctly politioned the real but inverted image of the source 1 forms by the airror 0 coincides with the source itself. The source 1 is limplaced by 2.2-2.5 m, at right angles to the optical axis and it now occupies a position 1'. By rotation of the spherical mirror 0 the image 1 (of the source 1') is positioned on the slit 5. Intensities of reflection are now measured for the same wavelengths for which intensities from the source itself were obtained earlier. The ratios of these intensities give the spectral coefficient of reflection by the mirror. The mirrors 5 and 6 are placed in front of the slit 5 to prevent meating of the latter. There are 2 figures, 4 references of which 2 are Soviet and 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations of meating and into respict that 2 are translations and meating and into respict that 2 are translations and meating and into respict the second and the respict to the second and the respict to the respict to the second and the respict to the respict to the respict to the second and the respict to the respict to the second and the respict to the res

Janu 2/3

51...2 26/28 On the Method of Measurement of the Spectral Coefficient of Reflection of Mirrors.

ADDOUTHFION: Kazan'State University imeni V.I. University imeni V.I. University (Kazanskiy gos. universitet im. V.I. University imeni V.I. University)

30 B. I.T.D: May 29, 1957.

1. Mirrors-Infrared spectra 2. Mirrors-Reflective properties...
Measurement

Card 3/3

。 日本語》及語彙日本語言語

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

SOV/51-6-2-2/39

• AUTHOR:

Tagirov, R. B.

TITLE:

On the Cause of Infrared Emission-Band Shift in Flame Spectra (K voprosu o prirode smeshcheniya infrakrasnykh polos ispuskaniya v spektrakh plamen)

PERIODICAL: Optica i Spektroskopiya, 1959, Vol 6, Nr 2, pp 137-140 (USSR)

ABSTRACT:

Paschen (Ref 1) pointed out that in the infrared emission spectrum of a Bunsen flame the maximum of the 2349.3 cm l band of CO2 molecules has "red" snift compared with the absorption spectrum of atmospheric carbon dioxide. A similar "red" snift was reported by Julius (Ref 2) for HCl in  $H_2$  +  $Gl_2$  flame spectra, for  $GS_2$  and  $SO_2$  bands in  $GS_2$  +  $O_2$ flame spectra and so on. In view of contradictory explanations of this shift the present paper deals with the mechanism of excitation of CO2 molecules in diffusion flames of CO in oxygen and with the cause of the infrared emission-band shift compared with the bands in the absorption spectra. The infrared emission spectra were obtained by means of an infrared spectrometer IKS-11. To increase the emission intensity received by the spectrometer the author placed a spherical mirror behind the flame. Carbon monexide used in the flame was obtained by reaction of formic acid with sulphuric acid and was stored over water. It was

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On the Cause of Infrared Emission-Band Shift in Flame Spectra

burned without any preliminary drying. The spectral curves, uncorrected for the atmospheric absorption, obtained in the region 6000-400 cm-1 are given in Fig 1. Curves a, \*\*\* were obtained using LiF, NaCl and KBr prisms respectively. Some of the bands shown in Fig 1 were reported also by other authors. Comparison of Fig 1 with the absorption spectra at room temperature shows that machina of some CO2 bands exhibit "red" shift while other bands have "violet" shift. Maximum of a CO emission band is displaced towards shorter wavelengths compared with the absorption spectrum (Fig 2). To elucidate the mechanism of excitation of CO2 molecules in diffusion flames of CO in CO2, the authors used the well-established fact that H2O molecules in hydrogenoxygen flames are excited thermally (Ref 4). The author studied the temperature and other dependences of infrared emission by H2O molecules in diffusion flames of H2 in O2 and by CO2 molecules in flames of CO He found that CO2 molecules are also thermally excited in flames of CO in O2 or in air. The relevant experimental material used is given in Figs 3 and 4: Fig 3 shows the frequency dependence of the ratio of intensities of H2O and CO2 bands in spectra of H2 and CO flames; Fig 4 shows the pressure dependence of CO2 (curve 1) and H2O (curve 2) bands emitted in CO and H2 flames. The shifts of the CO2 bands in

Jard 2/3

On the Cause of Infrared Emission-Band Shift in Flame Spectra

SOV/51-6-2-2/39

flames are due to asymmetry of these bands and formation of edges. The latter is shown in Fig 5 for 2349.3 cm<sup>-1</sup> band of CO<sub>2</sub>. Curve a shows the spectrum at small concentrations of CO<sub>2</sub> (atmospheric conditions) and curve b shows the band under conditions of high concentration of CO<sub>2</sub> (in flames). Increase of the CO<sub>2</sub> concentration produces an edge and displaces the band as a whole towards longer wavelengths (Fig Fb.. The observed shift of the 2349.3 cm<sup>-1</sup> CO<sub>2</sub> band in flames of CO and hydrocarbons (e.g. Bunsen's flame) is also due to superposition of a 2142 cm<sup>-1</sup> CO band. The "violet" displacement of the CO band shown in Fig 2 is due to asymmetry and temperature broadening. Acknowledgments are made to V.N. Kondrat'yev and V.V. Voyevodskiy for their advice. There are 6 figures and 11 references, 3 of which are Soviet, 5 English, 1 Gennan, 1 Dutch and 1 translation.

SUBMITTED:

April 19, 1957

Card 3/3

TAGIROV, Salikh Mikhaylovich; CHERNYAGIN, B.M., kand.tekhn.nauk, retsenzent; ITKIN, I.M., inzh., red.; AKIMOVA, A.G., red. izd-va; CHERNOVA, Z.I., tekhn.red.

[Construction and assembling of watches] Konstruktsiia i tekhnologiia aborki mekhanicheskikh chasov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 243 p. (MIRA 13:11)

(Clockmaking and watchmaking)

24.3410

69836

\$/051/60/008/03/006/038

**E**201**/E**191

AUTHOR:

Tagirov, R.B.

TITLE:

On the Problem of Participation of H20 in the Reaction of

\Combustion of Carbon Monoxiderlin Oxygen

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 3,

pp 312-314 (USSR)

ABSTRACT: Kondrat'yev et al (Refs 1, 2) and other workers (Ref 3) reported that water molecules take active part in the process of combustion of carbon monoxide in oxygen at low pressures. Inside the combustion zone the following

reaction occurs:

OH (+CO), H (+O2), OH (+CO), H (+O2),

(1)

As a result of this reaction the thermodynamic equilibrium concentrations of OH and H in the combustion zone will no longer be obtained. The present paper deals with the problem where the reaction given by Eq (1) takes place in hot diffusion flames of CO burning in O2. this purpose the author investigated the infrared emission of flames of CO in O2 and of H2 in O2, using an infrared

Card 1/2

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E201/E191

On the Problem of Participation of H2O in the Reaction of Combustion of Carbon Monoxide in Oxygen

spectrometer IKS-11% A spherical aluminized mirror was placed behind the flame at a distance equal to the radius of curvature of the mirror; this nearly doubled the emission intensity of the flame. The results obtained (Figs 1 and 2) show that, in the flames of CO + O2 containing moisture, the water molecules are dissociated to a considerable extent (much more than in H2 + O2 flames) and take active part in the process of combustion of GO in O2. Acknowledgements are made to V.N. Kondrat'yer and V.V. Voyevodskiy for their advice.

There are 2 figures and 11 references, of which 5 are Soviet, 2 English, 1 Dutch and 2 translations from English into Russian (Ref 5 is missing from the literature-cited list).

2/2

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SUBMITTED: May 21, 1959

TAGIROV, R.B.

Bimirrors for the IKS-11 infrared spectrometer. Frib. i tekh.

Bimirrors for the IKS-11 infrared spectrometer. Frib. i tekh.

(MIRA 14:9)

eksp. 6 no.2:149-150 Mr-Ap '61.

1. Kazanskiy gosudarstvennyy universitet.

(Spectrometer)

5/120/63/000/001/029/072 E032/E314

AUTHOR:

Tagirov, R.B.

TITLE:

On the variation in the integral sensitivity of  $\Phi$ 3CC ->10 (FESS-U10) photoelements with time and

diameter

vol.8

PERIODICAL: Pribory i tekhnika eksperimenta, /no. 1, 1963,

120 - 121

Use of the UKC-11 (IKS-11) infrared spectrometer over the last six years has shown a large reduction in the TEXT: integral sensitivity of FESS-U10 photoelements operating in conjunction with the \$\\\\00009-15\$ (FEOU-15). Special measurements undertaken to investigate this effect showed that the reduction in the integral sensitivity of the FESS-U10 with time was largely due to the increase in the resistance of the semi-transparent metal film which served as the second electrode. It appears that the change in the properties of the metal film is due to diffusion of the semiconductor into the metal, and other factors. The metal film gradually assumes semiconductor properties, its resistance increases considerably and the central part of the photocell loses Card 1/2

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its sensitivity. It is recommended that in order to prevent this effect a low-resistance grid be superimposed on the semitransparent metal electrode. There are 2 figures.

ASSOCIATION:

Kazanskiy gosudarstvennyy universitet

(Kazan' State University)

SUBMITTED:

March 23, 1962

Card 2/2

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ACC NR.AR6009965  AUTHOR: Tagirov, R. B.; Stolov, A. L.; Mashkevich, S. A.  AUTHOR: Tagirov, R. B.; Stolov, A. L.; Mashkevich, S. A.	
AUTHOR: Tagirov, R. 2.,  TITLE: Measurement of the work function of electrons for certain alloys	
TITLE: Meable offers	
SOURCE: Ref. zh. Metallurgiya, Abs. 121246	
La Corentsiva Kazansk. un-ta za 1963 g. Sekts.:	
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Kazan', 1964, 25-27	
TOPIC TAGS: steel, brass, bronze, molybdenum, electron interaction, monochromatic	
radiation, work function	
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ACC NR: AR6017240 SOURCE CODE: UR/0058/65/000/012/D038/D038

70 B

AUTHOR: Tagirov, R. B.

ORG: none

TITLE: Measurement of flame temperature from the infrared emission spectrum

SOURCE: Ref. zh. Fizika, Abs. 12D314

REF SOURCE: Sb. Itog. nauchn. konferentsiya <u>Kazansk. un-ta za 1963 g. Sekts.:</u> paramagnitn. rezonansa, spektroskopii i fiz. polimerov, radiofiz., astron., bion. Kazan' 1964, 40-42

TOPIC TAGS: flame temperature, temperature measurement, emission spectrum, IR spectrum

ABSTRACT: A method has been suggested for determining the temperature of non-equilibrium flames in comparing their spectra with the spectra of an equilibrium flame. [Translation of abstract]. [NT]

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L 08373-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AR6028149 SOURCE CODE: UR/0058/66/000/005/H067/H067

AUTHOR: Tagirov, R. B.; Stolov, A. L.; Mashkevich, S. A.

68

TITLE: Measurement of the work function of electrons for several alloys

SOURCE: Ref. zh. Fizika, Abs. 5Zh477

REF. SOURCE: Sb. Itog. nauchn. konferentsiya <u>Kazansk. un-ta za 1963 g. Sekts: paramagnitn. rezonansa. spektroskopii i fiz. polimerov, radiofiz., astron., bion. Kazan, 1964, 25-27</u>

TOPIC TAGS: work function, photoeffect, brass, bronze, steel, molybdenum, surface finishing, refractory alloy

ABSTRACT: The method of delayed field and red boundary of the external photoeffect  $\frac{1}{12}$  were used to measure the work function  $\phi$  of different brands of brass, steel, bronze, and molybdenum. The measurements were made in an instrument constituting a spherical capacitor in vacuum of  $\sim 10^{-6}$  mm Hg. It is established that in most cases  $\phi$  decreases following surfa e finishing of the metal. When the surface is cleaned, the quantum yield  $\gamma$  greatly increases;  $\gamma$  decreases when the samples are kept in air, owing to the appearance of  $\epsilon$  reace oxides. Investigations of a group of refractory alloys based on molybdenum rever led appreciable changes in  $\phi$ , from 3.6 to 4.4 eV, depending on the composition and heat treatment conditions of the alloys. [Translation of abstract]

SUB CODE: 20
Card 1/1 nst

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Lement Com of A.A.; Potapov, A.P.; Tagirov, R.I.	
and: The second of Metal Physics, Academy of Sciences, SSSR (Institut fiziki metallov	
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Olimbre Two-layer fills, of manganese and Permalloy with unidirectional anisotropy continues of the unimage tracture) (herport, All-Union Conference on the Physics of the committee and 2-7 July 1905 in Sverdlovan	
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vization switching took place by nucleation followed by domain wall displacement. The woman walls exhibited cross-ties, i.e., they consisted of portions with right- and 10. Commit councilor of the spine in the plane of the film. Unidirectional anisotropy while Induced I. the films by annealing them for 1.5 hour at 3500, which resulted in the Torameton of an antiferromagnetic compound at the boundary between the manganese and the Permilloy. The domain walls present in the film during the anneal were clamped, and, they could not be moved or destroyed by demagnetization in a decreasing alternating field. Switching took place by magnetization rotation in different directions, as wan evideed by the appearance within the domains of walls perpendicular to the applied field. At saturation the positions of the original walls were marked by clusters of powder, and the walls reappeared in their original locations and with their original line structures when the field was removed. The annealed films required much otronger fields for magnetization switching than did the unannealed ones. The clamping of the committee that the annealed filler to emphained as a result of the exchange instruction between the ferromagnetic and untilerromagnetic layers and the inability of modernoely serion; external fields to alter direction of the antiferromagnetism in the antilerromagnetic layers. Orig. art. has: 3 figures.

UUD CODD: 20 SUBM DATE: 00 ORIG. REF: 002 OTH REF: 002

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

EWT(1)/EPA(s)-2/EWT(m)/EWP(1)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)L 50984-65 IJP(c) JD/GG UR/0048/65/029/004/0706/0710 ACCESSION NR: AP5011464 AUTHOR: Shur, Ya. S.; Glazer, A. A.; Tagirov, R. I.; Potapov, A. P. TITLE: Concerning the nature of uniaxial anisotropy of thin ferromagnetic films Report, Second All-Union Symposium on Thin Ferromagnetic Films held in Irkutsk 10-15 July 19647 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 4, 1965, 706-710 TOPIC TAGS: ferromagnetic thin film, magnetic anisotropy, permalloy ABSTRACT: While it is a familiar fact that thin ferromagnetic films prepared by vacuum evaporation onto substrates in a magnetic field exhibit uniaxial anisotropy. the nature and origin of this anisitropy are still obscure. Accordingly, the aim of the present work was to identify the possible reason for appearance of uniaxial anisotropy on the hasis of investigation of some of the pertinent properties of Permalloy films. The results of a series of experiments showed that uniaxial anisotropy of Permalloy films, at any rate, is not connected with so-called "Grient ed superstructure". Note is made of the singular characteristics of the hysteresis loops of Permalloy films and the fact that the relative residual magnetization of films differs from that of bulk specimens. The effect of annealing at different **Card 1/2** 

temperatures on some of the magnetic and electric properties of Permalloy films is discussed (after annealing at 400° 79 Permalloy films become isotropic). It is concluded that the cause of uniaxial anisotropy in thin polycrystalline films is shape (geometric) anisotropy of the single domain grains, separated from each other by less magnetic boundaries. The size of the grains must be small (not over a few nundred Angstroms) so that the grains will be single domain ones and the volume of the intergrain boundries will be commensurate with the volume of the grains. It collows that uniaxial anisotropy need not be restricted to very thin films, but night be evinced even in "bulk" specimens, provided they are composed of sufficiently small grains of elongated shape and arrayed with their longest axes in the same lirection. Orig. art. has: 2 figures.  SSOCIATION: Institut fiziki metallov Akademii nauk SSSR (Institute of Physics of Stals, Academy of Sciences, SSSR)  UBMITTED: 00 SUB CODE: FM, PM  OTHER: 005	ACCESSION NR: AP5011464		de services de la company de la compa	
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SUBMITTED: 00 SUB CODE: EM, MM  IR REF SOV: 003 OTHER: 005	cluded that the cause of un (geometric) anisotropy of the less magnetic boundaries. hundred Angstroms) so that the intergrain boundries wi	at 400° 79 Permalloy films become niaxial anisotropy in thin polycrathe single domain grains, separate the size of the grains must be state grains will be single domain the grains will be commensurate with the volume.	me isotropic). It is constable films is shap ted from each other by small (not over a few in ones and the volume of the grains. It	on- oe
SUBMITTED: 00 SUB CODE: RM, MM  IR REF SOV: 003 OTHER: 005	ly small grains of elongate direction. Orig. art. has:	oulk" specimens, provided they ared shape and arrayed with their 1 2 figures.	e composed of sufficien ongest axes in the same	
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2/2 Card 2/2	ly small grains of elongate direction. Orig. art. has:	oulk" specimens, provided they ared shape and arrayed with their 1 2 figures.  ki metallov Akademii nauk SSSR (1, SSSR)	e composed of sufficien ongest axes in the same	
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SOURCE CODE: UR/0181/66/603/010/3022/3031

AUTHOR: Glazer, A. A.; Potapov, A. P.; Tagirov, R. I.; Shur, Ya. S.

ORG: Institute of Physics of Metals, AN SSSR, Sverdlovsk (Institut fiziki metallov AN SSSR)

TITLE: Exchange anisotropy in thin magnetic films

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 3022-3031

TOPIC TAGS: manganese, permalloy, magnetic anisotropy, ferromagnetic film, antiferromagnetic material, magnetic hysteresis, hysteresis loop, metal diffusion

ABSTRACT: The purpose of the investigation was to study systematically the magnetic properties of two-layer manganese-permalloy films and especially to determine the regularities that result from exchange interaction between the ferromagnetic and antiferromagnetic regions in such substances. The samples were produced in the form of round spots of 10 mm dia. by successive sputtering of layers of manganese and 82-permalloy on discs cut from cover classes in a vacuum of 5 x 10-5 mm Hg. The sputtering was in a magnetic field of 70 0e at a temperature 2500. The layer thickness was 400 - 1500 Å. The film characteristics measured were the hysteresis loops in different directions in the plane of the film, the torque curves, and the domain structure. The measurements were made after annealing at 3500 and cooling in the magnetic field. The films so treated exhibit a domain structure and all the attributes characteristic of substances with exchange (unidirectional) anisotropy, namely a shift in

Card 1/2

ACC NR: AF6033565

the hysteresis loop, proportionality of the torque to the sine of the angle, and loss to rotational hysteresis in strong fields. This anisotropy is apparently due to exchange interaction between the permalloy layer with the antiferromagnetic regions produced by mutual diffusion of the iron, nickel, and manganese. The angular dependence of the magnetic properties can be qualitatively described in terms of the rotation theory, extended to the case of a uniaxial film. The rotational-hysteresis loss is due to inhomogeneity of the exchange anisotropy. The authors thank V. I. Khrabrov for processing the samples in pulsed magnetic fields and A. I. Mitsek for useful discussions. Orig. art. has: 7 figures and 6 formulas.

SUB CODE: 20/ SUBM DATE: 04Apr66/ ORIG REF: 004/ OTH REF: 004

Card 2/2

5/179/61/000/005/005/022 E031/E426

26.211

Tagirev, R.K. (Mescow)

AUTHOR: TITLE :

The determination of the base pressure and

temperature when source or supersonic flow undergoes a

sudden expansion

PERIODICAL: Akademiya nauk SSSR, Izwestiya, Otdeleniya

A Z

tekhnicheskikh nauk, Makhanika i mashinostroyeniye.

w.5, 1961, 30=37

It is assumed that the static pressure in the mixing TEXT: region is equal to that of the undisturbed flow; that the base temperature is constant in the etagnation region with the exception of a thin layer at the walls: and that the velocity profile of the boundary layer in the expansion wave is given by a The method of solution is based on that of H.H.Korst power law. (Ref.1: J. Appl. Meth. 1957, 23 no.4); it is assumed that empirical relections based on data given in Korst's paper, and the velocity profile are valid for isothermal and non-isothermal two-dimensional and axisymmetric flows. In the case of a sudden expansion of an axisymmetric flow from the axis, the position of the shock as determined from the intersection of the boundary of Card 1/2

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THE TAXABLE PROPERTY OF THE PR

5/179/61/000/005/005/022 E031/E426

The determinarion of the base ore

the adeal stream with the wall of the channel. If the expansion is towards the axis, the position of the shock can be determined approximately from the intersection of the zero stream line (the lower limit of the mixing region) with the exis of symmetry. There is a comparison between the calculated base pressure and experimental results which shows qualitative agreement. of calculating the base temperature is also given. There are 7 figures and 8 references, 1 Sovietabic:, 1 Russian translation from non-Sovietable: publication and 6 non-Sovietablec. four most recent peferences to English language publications read as follows: Ref. 1: as quoted in text. Ref. 2: Chow W.L. J. Aero Space Six., 1959, 26, no.5; Ref. 6: Kurzweg H.H. J. Aeronaut. Siz., 1951, w.18, no.21. Ref. 7: Page R.H. ARS Journal, 1959, v.29, nc.6

SUBMITTED: April 11, 1961

Card 2/2

TAGIROV, R.K. (Moskva)

Calculating thermal flows in case of two different supersonic flows about a bend. Izv. AN SSSR. Mekh. i mashinostr. no.6:55-61 N-D 163. (MIRA 17:1)

L 29872-66 ENT(1)/ENP(m) NA SOURCE CODE: UR/0421/66/000/002/0145/0148 AP6013217 AUTHOR: Tagirov, R. K. (Moscow) B  $Y_{ij} \in \mathcal{A}^{n}(\overline{\mathcal{A}})$ ORG: none The effect of the <u>initial boundary layer</u> on the base pressure TITLE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 2, 1966, SOURCE: 145-148 TOPIC TAGS: boundary layer theory, fluid flow ABSTRACT: The article considers two cases of the problem: the first where the thickness of the initial boundary layer is equal to zero, and the second where it is greater than zero. In the first case (see Fig. 1) **(3)** Card 1/2 Figure 1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

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ACC NR: A						0
it is assurentering frarefaction pressure; case where zero, the the previous of theoret	med that the flo low region; 2) t n wave; 3) the m 5) the base regi the thickness o basic assumption us case. It was ical calculation has: 5 formula	he region of ixing region on. In the finities and the so found that, a were highe	fan snape; 4) the remathematical boundary heme of carrent than the	egion of all treats layer in a layer in a layer in a layer in a layer the	increased ment of the s greater n are sim cases, re	then to esults
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Card 2/2	<u> </u>					

KITAYNIK, A.U.; LARIONOV, N.N., zhurnalist; ERATCHIKOV, B., zhurnalist; EYKOV, V., zhurnalist; VOLKOV, Ye., zhurnalist; VOSKRESENSKIY, N., zhurnalist; GERVASH, A., zhurnalist; GORDIN, A., zhurnalist; GILENKO, A., zhurnalist; DASHKOV, S., zhurnalist; DROBOTUSHENKO, A., zhurnalist; YERSHOV, N., zhurnalist; ZHULYABIN, A., zhurnalist; KRASNOV, I., zhurnalist; IUCHINETSKIY, Ye., zhurnalist; IYKOV, M., zhurnalist; MEYSAK, N., zhurnalist; PADERIN, G., zhurnalist; PAL'M, A., zhurnalist; PONOMAREV, P., zhurnalist; RUBINA, M., zhurnalist; TAGIROV, T., zhurnalist; TIMOFEYEV, B., zhurnalist; YANSHIN, V., zhurnalist; TRUBITSIN, N.A., ctv.red.; OMEYSH-KUZNETSOV, S., red.izd-va; TOBUKH, A., tekhn.red.

[Nov sibirsk; a collection] Novosibirsk; sbornik. Novosibirskoe knizhnoe izd-vo, 1961. 180 p. (MTRA 15:5)

(Novosibirsk--History) (Novosibirsk--Description)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

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S/181/61/003/009/017/039 B102/B104

247000

1643 1144 1385

AUTHORS:

Tagirov, V. I., and Kuliyev, A. A.

TITLE:

Study of the distribution coefficients of tantalum in

germanium on its crystallization

PERIODICAL: Fizika tverdogo tela. v. 3, no. 9, 1961, 2669 - 2671

TEXT: The distribution of the elements of group V in germanium has hitherto been insufficiently studied although the knowledge of these rules is of scientific and technical interest. The Ta distribution in Ge has not been studied at all. The authors studied the distribution of Ta  $^{182}$  in Ge. Using the method by Burton et al. the authors deter ined the effective distribution coefficient of Ta during the crystallization of Ge as a function of the growth rate of the single crystal.  $K_{eff}$  was calculated by the equation  $K_{eff} = K_{o}/\left[K_{o} + (1-K_{o})\exp(-v\delta/D)\right]$  where  $K_{o}$  is the equilibrium distribution coefficient, v the growth rate, D the diffusion coefficient of the impurities in the liquid,  $\delta$  the layer Card 1/3

2° 085 S/181/61/003/009/017/039 B102/B104

Study of the distribution coefficients...

thickness in the melt near the crystallization front. The authors used 2.5 g of pure germanium (resistivity 50 ohm.cm) which was melted together with 5 mg of  $\mathrm{Ta}^{182}$  (specific activity 1000 mcuries/g) in a quartz ampul at 10-4mm Hg and at 1000°C. In order to safeguard maximum even distribution it was kept in liquid state for a certain time and then well mixed. The thus obtained ligature was used for alloying pure Ge with Ta<sup>182</sup>. The pure Ge was melted together with the ligature and the single crystals were then grown from the melt. First, the authors determined the dependence of the absorption of tantalum emission in germanium on the amount of germanium by a comparison with a standard specimen. It was found that absorption ( in % of the maximum activity) exponentially decreased with increasing specimen weight. A study of the activity distribution along the specimen showed that the activity exponentially increased with increasing distance from the primary crystallization front. The main part of the tantalum impurity accumulated at the end of the specimen. K as a function of the growth rate of the Ge single crystal proved to be a weakly nonlinearly increasing function and  $ln(1/K_{eff} - 1)$  as a function of

Card 2/3

280**85** 5/181/61/003/009/017/039 cients... B102/B104

Study of the distribution coefficients...

v proved to be a descending straight intersecting the ordinate. The distance between joint of intersection and origin is  $\ln(1/K_0 - 1)$  from which the coefficient of equilibrium distribution was calculated to be cook. There are diffigures and 2 non-Soviet references. They read as follows:  $\frac{1}{2} = \frac{1}{2} + \frac{1}$ 

tollows. 3 A. Burton, R. J. Prim. W. P. Slichter, J. Chem. Phys., 21. 1967, 1963. 3 A. Burton, E. D. Kolb, W. P. Slichter, J. D. Struthers, J. Dhem. Phys., 21, 11, 1991, 1953

ASSCRIPTION:

Institut fiziki AN AZSSR Baku (Institute of Physics of the

Amerbaydzhanskaya SSR. maku)

JUNATTED

April 10. 1961

Data 5, 5

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S/233/62/000/001/001/001

1033/1233

**AUTHOR** 

Fagirov, V. I., and Kuliyev, A.A.

TITLE

Diffusion of tantalum in germanium crystals

PERIODICAL

Akademiya nauk Azerbaydzhanskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh i

tekhnicheskikh nauk, no. 1, 1962, 65-68

TEXT: The diffusion coefficient of Ta<sup>112</sup> in single germanium crystals was investigated by slicing off thin layers. Samples were annealed for 15 to 60 hours. Diffusion experiments were carried out between 750-900°C and 80C-900°C; the specific resistances of the samples were 10 and 45 ohm-cm, respectively Values of diffusion coefficients are:

 $D_{p = 10 \text{ ohm/cm}} = 2.5 \times 10^{-6} \text{ ex./} (-1.16/\text{kT}) \text{ cm}^2/\text{sec}$ 

and

 $D_{p = 45 \text{ ohm cm}} = 0.2$  exp(-2.86/kT) cm<sup>2</sup>/sec.

There are 2 figures.

Card 1/1

S/181/62/004/001/043/052 B111/B104

AUTHORS:

Tagirov, V. I., and Kuliyev, A. A.

TITLE:

Diffusion and solubility of thallium in germanium

PERIODICAL: Fizika tverdogo tela, v. 4, no. 1, 1962, 272 - 275

TEXT: The measurement was made with the isotope Tl  $^{204}$  (electron emitter. 2.71 years, 0.765 Mev) and with monocrystalline specimens of germanium (43 ohm cm). First, the specimens were ground and then etched in boiling perhydrol. The diffusion was studied by removing thin layers and determining the distribution of Tl in them by a measurement of activity with an MCT-17(MST-17) end-window counter. When the concentration of Tl  $^{204}$  on the surface of the specimen is permanently constant, the concentration distribution is given by  $c(x, t) = c_0(1 - erf u)$ , where  $c_0$  is the solubility

of Tl in Ge at a given temperature,  $u=x/2\sqrt{dt}$ , x is the penetration depth, t is the duration of diffusion annealing, and D is the diffusion coefficient. A constant Tl concentration on the surface can be achieved by using saturated Tl vapor. Attempts to determine the temperature dependence

Card 1/3

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Diffusion and solubility of ...

of the diffusion constant were made between 800 and 930°C. Alloys formed above 950°C rendered measurements impossible. The diffusion coefficient is given by  $D = 1.7 \cdot 10^{\frac{3}{2}} \exp(-3.4/kT) \text{ cm}^2/\text{sec}$ . The diffusion coefficients and the solubility of other elements of the same sub-group in germanium exhibit correlation as in the case of Tl. At $\sim 917^{\circ}$ C the solubility of Tl reaches a maximum of  $9.5 \cdot 10^{18}$  at/cm<sup>3</sup>. The activation energy arising in the diffusion of Tl in Ge is greater than the self-diffusion energy of Ge. The same is true for Cd. B. and Pb. It is therefore assumed that like in the case of Cd, diffusion proceeds from vacancy to vacancy G. B. Abdullayev Corresponding Member AS Azerbaydzhanskaya SSR, and M. G. Shakhtakhtinskiy, Candidate of Physics and Mathematics, are thanked for discussions, There are 2 figures and 10 references: 4 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: F. M. Smits, Proc. IRE, 46, 6, 1958; B. Goldstein Phys Rev. 118. 4, 1960; R. A. Swalin, J. Appl. Phys. 29, 4 1958; W. C. Dunlap Phys. Rev., 94, 6, 1954.

Card 2/3

S/181/62/004/001/043/052 B111/B104

Diffusion and sclubility of ...

ASSOCIATION: Institut fiziki AN Az. SSR Baku (Institute of Physics AS .

Azerbaydzhanskaya SSR, Baku)

SUBMITTED:

July 1, 1961 (initially) September 11, 1961 (after revision)

Card 3/3

CIA-RDP86-00513R001754720001-4" **APPROVED FOR RELEASE: 07/13/2001** 

ACCESSION NR: AP4012598

s/0233/63/000/005/0063/0068

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AUTHORS: Tagirov, V.I.; Kuliyev, A.A.

TITLE: Electrical conductivity of germanium single crystals

alloyed with tantalum and thallium

SOURCE: AM AzerbSSR. Izv. Ser. fiz.-matem. i tekhn. nauk, no. 5,

1963, 63-68

TOPIC TAGS: electrical conductivity, germanium, germanium alloy, tantalum, thallium, semiconductor germanium electrical conductivity radioactive thallium, solid state physics

ABSTRACT: The authors report the results of investigation of the effect of thallium and tantalum on the type and the magnitude of conductivity of germanium, and the relationship between the number of atoms of admixtures and that of the current carriers. Germanium was purified by zone melting. Ten to fifteen passes were sufficient to increase the resistivity from 1 to 60 ohm.cm. Radioactive thallums 204 and tantalum 182 were introduced as alloying elements.

Cord 1/2

ACCESSION NR: AP4012598

The concentration of the current carriers was determined by the Mall-effect. The type of conductivity was determined by the sign of the emf. The concentration of the admixtures was found by the matrice. The measurement of the resistivity of alloys as a function of temperature is given in diagrams. They are interpreted by means of the dependence of the number of current carriers (electron and holes) on the amount of admixtures.

ALSOCIATION: None

SUBLITTED: CO

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: PH, GE

NO REF SOV: 005

OTHER: 008

2/2 Card

# "APPROVED FOR RELEASE: 07/13/2001

#### CIA-RDP86-00513R001754720001-4

IJP(c) UR/0070/65/010/005/0751/0754 ACC NR: AP5024563 44 548.5 AUTHOR: Tairov, S.I.; Tagirov, V.I.; Shakhtakhtinskiy, B TITLE: Preparation of single-crystal germanium-silicon alloys 55 ×2 SOURCE: Kristallografiya, v. 10, no. 5, 1965, 751-754 1.44,65 TOPIC TAGS: single crystal growing, germanium alloy, silicon alloy ABSTRACT: The purpose of the work was to obtain homogeneous single crystals of a germanium-silicon alloy containing 15 at . % silicon, inasmuch as a pronounced change in the physical properties of Ge-Si alloys is observed in this region. Experiments showed that without a single-crystal seed of the alloy itself, single crystals of the Ge-Si system could be obtained only at extremely slow pulling rates which are very difficult to achieve in practice. The main difficulty, in addition to liquation, is the lack of a suitable seed. Single crystals of the Ge-Si alloy containing 15 at . % Si were grown by using a single-crystal seed of this alloy, and liquation was eliminated by selecting the melt composition in accordance with the composition of the grown solid phase based on the phase diagram, and by growing the crystal at a slow rate. The homogeneity of the sample was achieved by keeping the content of the melt constant. Orig. art. has: 2 figures. ASSOCIATION: Institut fiziki AN Azerb. SSR (Institute of Physics, AN Azerb. SSR SUB CODE: SS. MM ENCL: 00 SUBMITTED: 09Feb65 OTHER: 004 NO REF SOV: 006 1/1/200 Card 09010198

ACC NR: AF6023951

SOURCE CODE: UR/0233/65/000/006/0084/0088

AUTHOR: Tairov, S. I.; Tagirov, V. I.; Kuliyev, A. A.

ORG: none

TITIE: Preparation of single crystals of solid solutions of the germanium-silicon system and study of their electric properties ( 27 27

SOURCE: AN AzerbSSR. Izv. Ser fiz-tekhn 1 matem n, no. 6, 1965, 84-88

TOPIC TAGS: single crystal growing, silicon alloy, germanium alloy, semiconductor conductivity, Hall constant

ABSTRACT: Single crystals of solid solutions of the Ge-Si systom were prepared by Czochralski's method. Liquation was elminated by selecting (on the basis of the phase diagram) a melt composition corresponding to the composition of the grown solid phase, and by growing the crystal at a slow rate. The electrical measurements were carried out on specimens of such shape that the contacts did not affect the results. The temperature dependence of the electrical conductivity  $\sigma$  and of the Hall constant R were measured on p-type specimens containing 4.4 at. % Si (see Fig. 1). From the slope of the curve log  $|R|T^{3/2}$  vs. 1000/T, the value of the forbidden gap width was found to be  $\Delta E = 0.78\pm0.02$  eV. The ratio  $U_{\rm p}/U_{\rm p}$  (where  $U_{\rm p}$  is the electron mobility and  $U_{\rm p}$  the hole mobility) was found to be 1.8. The linearity of the curve representing  $U_{\rm p}$  vs. 3/2 log T indicates a lattice scattering mechanism. The temperature de-

Card 1/2

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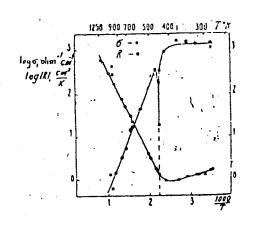
ACC NR: AP6023951

pendence of the hole mobility may be expressed by the formula

 $U_p = 8.1 \times 10^6 T^{-3/2} \text{ cm}^2/\text{V sec.}$ 

Orig. art. has: 6 figures and 2 formulas.

Fig. 1. Temperature dependence of the electrical conductivity (o) and Hall constant (R) for p-type samples containing 4.4 at. % silicon.



SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 006

Card 2/2 /1/

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APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754720001-4"

ACC NR: AP6033269

SOURCE CODE: UR/0020/66/170/004/0822/0824

AUTHOR: Davzhanov, Kh.; Shakhtakhtinskiy, M. G.; Tagirov, V. I.; Aliyeva, B. E.; Shilkin, A. I.; Kuliyev, A. A.

ORG: Institute of Physics, Academy of Sciences, AzerbSSR)

TITLE: High temperature inversion of the Hall coefficient in tellurium

SOURCE: AN SSSR. Doklady, v. 170, no. 4, 1966, 822-824

TOPIC TAGS: tellurium, Hall coefficient, temperature dependence, energy band structure, impurity conductivity

ABSTRACT: To obtain more information on the band structure and on the mechanism of impurity conductivity of tellurium, the authors measured the electric conductivity and the Hall coefficient of tellurium doped with thallium. In view of the low solubility of thallium in tellurium, the impurity concentration was determined by a radioactive tracer method. The apparatus and technique used to grow the tellurium single crystals were described elsewhere (Pribory i tekhn. experimenta no. 5, 172, 1961). The measurements were made by a standard method in the temperature interval 77 - 530K, both in the direction of the principal axis of the crystal and perpendicular to it. The results show that the Hall coefficient is independent of the direction of the crystallographic axes, but the electric conductivity is. In spite of the similarity between selenium and tellurium in structure, thallium has a different effect on the electric properties of tellurium than of selenium. The admixture of thallium greatly

Card 1/2

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increases the electric conductivity of the tellurium, which remains of the p-type regardless of the thallium content. With increasing thallium content, the low temperature inversion point of the Hall coefficient shifts toward higher temperatures. The high temperature inversion point is shifted toward lower temperatures with increasing thallium concentration. A table of inversion temperatures as functions of the concentration is included. Although the number of holes per thallium atom is on

the average 0.5, this still does not mean that the thallium atoms are direct acceptors in the tellurium lattice. The change in the second inversion point of the Hall coefficient of tellurium can be attributed either to the deformation of the energy band during the alloying of tellurium by thallium, or to the change of the density of states in the energy band. This report was presented by Academician N. P. Sazhin

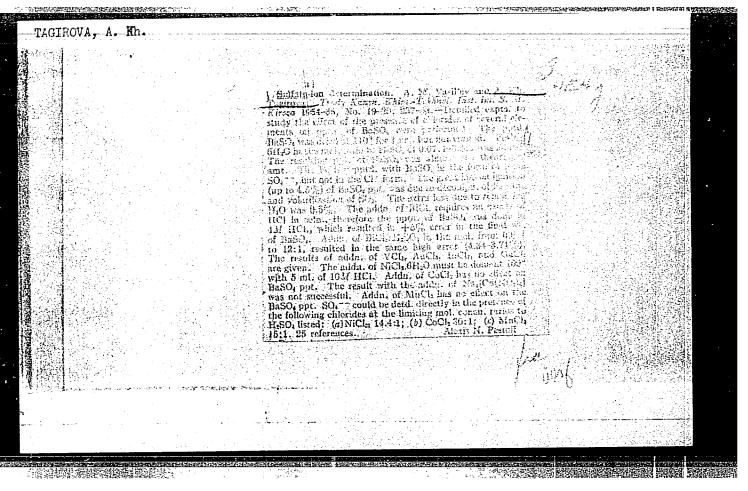
SUB CODE; 20/ SUBM DATE: 04-Jan66/ ORIG REF: 005/ OTH REF: 005

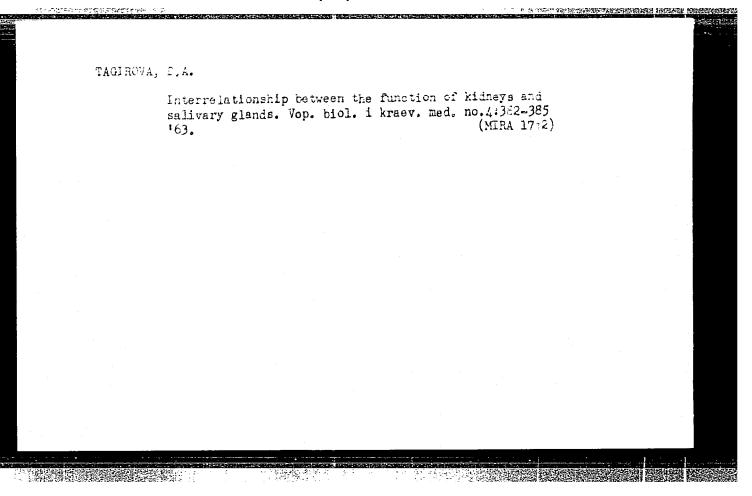
10 January 1966. Orig. art. has: 2 figures and 1 table.

Card 2/2

ACC NRI

AP6033269





TURSUNOV, Z.T.; TAGIROVA, D.A.

Interrelationship between the functions of the kidneys and the salivary glands. Uzb. biol. zhur. 8 no.5:39-44 '64 (MIRA 18:2)

1. Institut krayevoy eksperimental noy meditsiny AMN SSSR.

USSR/Chemical Technology -- Chemical Products and Their Application. Pesticides, I-7

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 1458

Author: Tagirova, E.

Institution: None

Title: Aerosols in the Control of Butterflies

Original

Periodical: Zashchita rasteniy ot wrediteley i bolezney, 1956, No 1, 47-49

Abstract: Thermomechanical aerosols soncisting of an 8% solution of DDT or 8%

DDT + 4% BHC in mineral oils were found to be effective in the control of the adults of the corn borer, mallow moth, cabbage butterfly, and the apple moth. With an application does of 8-10 l of solution per hectare, the kill-rate for the adults of the oak leaf roller is 85-99%. The kill-rate for the poplar moth is 100%. When the aerosols were used against the apple moth, fruit damage was

reduced to less than 30%.

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

# TACIRONA, I. F.

USSR/General and "pacial Zoology, Insects, Injurious Insects, and Ticks, Posts of Gercal Crops

Abs Jour : Rof Zhur - Biol., No 11, 1959, No 49604

Author : Churakov A.M., Tagirova E.F.

inst : -

Title : Agresols in the Control of the Sorn Borer

Ori; Pub : Zashchita rast. ot vrodit. i bolozney, 1957; No 2,

35

Abstract: The following were the indices of the aerosol treatment: the hist-forming power of AG-L6 was 3.6 litres per 1 minute, the rapidity of the machine's movement - not more than 4 km. per heur, the working range - 170-200m., the outlay of 8% oily DDT solution - 6-8 1/ha., the work - to be conducted at night (the maximum flight of the moths was fro: 10 p.m. to 2 a.m.). The first treatment was carried out at the energonce of 5-7% of the moths of the first generation and

Card : 1/2

38

THE RESERVE OF THE STREET PROPERTY OF THE STR

POTEKHIN, V.V.; TAGIROVA, K.M.

Case of angiosarcoma of the clavicle. Zdrav. Turk. 8 no.2: 21-22 F\*64 (MTRA 17:4)

1. Iz kafedry propedevticheskoy khirurgii (zav. - prof. N.M. Tachmuradov) i rentgenologii (ispolnyayushchiy obyazannosti zeveduyushchego V.V. Slesarev) Turmenskogo gosudarstvennogo meditsinskogo instituta i Turkmenskoy respublikanskoy klinicheskoy bol'nitsy imeni Pirogova) glavnyy vrach M.B. Shapiro)

VARSIULII, A.A., inzh.; AHLLIMIKO, N.I., inzh.; SIBAROV, Yu.G., inzh.; FOMICHEV, V.A., inzh.; HELAHED, M.F., inzh.; POTAFOVA, T.I., inzh.; HOLYUZHRYY, G.G., inzh.; TAGIROVA, M.I., inzh.; SHIFMAN, O.I., inzh.; STORTS, A.A., inzh.; VASIUHIN, A.A., inzh., otv. za vypusk; KHITROV, F.A., tekhn. red.

[Safety engineering regulations for operating traction substations and meetions lization posts of electrified railroads]Pravila tekhniki bezopasnosti pri ekspluatatsii tiagovykh podstantsii i postov sektsionirovaniia elektrifitsirovannykh zheleznykh dorog. Moskva, Transzheldorizdat, 1962. 202 p.

(MIRA 15:8)

1. Russia (1923- U.S.S.R.) Glavnoye uprovleniye elektrifikatsii i energeticheskogo khozyaystva. 2. TsE Ministerstva putey seebsheheniya (for Khlebnikov). 3. TSentral'nyy komitet profsoyusa (for Fomichev). 4. Moskovskaya sheleznaya doroga (for Kolyushnyy). 5. Svenllovskaya sheleznaya doroga (for Tagirova). 6. Yuzhno-Ural'skaya sheleznaya doroga (for Shifman). 7. Zapadno-Sibirskaya zheleznaya doroga (for Storts).

(Electric railroads -- Safety regulations)

TAGIROVA, R. Kh.

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Think and A. S., and O. S. Ivanov. Effect of the Chillian Alloys

2., and O. S. Ivanov. Kinetics of Control of the Phase Retained by Rapid [Water. Quenting Alloys With Aluminum, Silicon, Iron, Nick. 1979, and Pissium

licket. ... F., and O. S. Ivanov. Study of the control Additions in Quenched Uranium Alloys Tenne crious Temperatures

On the Phase Composition and Aging of Binary Uranium Allegate up to 2-5 at% Zirconium or Molybdenum

IVANOV, O. S. Doctor of Chemical Sciences ed. Stroyeniye i svoystva splavov urana, toriya i XXXXXXXXXXXXXXX tsirkoniya; sbornik statey (Structure and Properties of Branium, Thorium and Sirencondes Allogos; Collection of Articles) Massow, Constantion, 1963.

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con Reciptance and Mechanical Properties of Low-Okey. am Dow-Tin Zirconium Alloys omni drive V. B., the control of Mean and Calculations of Zireoni to the Alloys With Additions of the Addition of the Control of Tanadium, and the control of the Control o Michinevskiy, V. B., To I. Origorovich. Study of Ter L E reconium-Aluminum-Tir Alloys 40. Gemozov, L. I., V. B. Hishinavskiy, O. S. Ivenov, and Torigorovich. Corrosion Resistance of Some Binary and Termary Iodide-, Magnesium-Reduced-, or Electrolytic Zirainium-Base Alloys Card 9/10 

S/2648/63/000/009/0003/0066

ACCESSION NR: AT4016522

AUTHOR: Kask, L. I.; Tagirzyanov, A. T.

TITLE: Macrosynoptic conditions of extremely cold and extremely warm Aprils in Central Asia

SOURCE: Tashkent. Sredneaziatskiy nauchno-issledovatel\*skiy gidrometeorologicheskiy institut. Trudy\*, no. 9(24), 1963. Voprosy\* dolgosrochny\*kh prognozov pogody\* (Problems of long term weather prediction), 3-66

TOPIC TAGS: meteorology, climatology, climate, weather forecasting, long-range weather forecasting, local meteorological phenomenon, air temperature, atmospheric circulation, Central Asia climatology

ABSTRACT: A study was made of the macrosynoptic conditions of extremely cold and extremely warm Aprils in Central Asia. Section headings indicate organization of the presentation: Introduction. A. General regime of Aprils with temperature extremes. 1. Temperature characteristics. 11. Synoptic processes causing extremely cold and extremely warm Aprils in Central Asia. 1. Extremely cold Aprils. 2. Extremely warm Aprils. B. Prognostic indications for determination of Aprils with extreme temperatures. C. Additional prognostic indications. During the period 1900-1955 Aprils with extreme temperatures occurred in 46% of Card 1/1 3

ACCESSION NR: AT4016522

all years; 25% were extremely cold and 21% extremely warm. The daily air temperature anomalies were: a) in extremely cold Aprils, -2C and below from 12 to 18 days and +2C and above from 2 to 5 days; b) in extremely warm Aprils, +2C and above from 11 to 18 days and -2C and below from 2 to 7 days. The absolute values of the mean daily air temperature were most frequently: a) in extremely cold Aprils, 6-10C in northern and 11-15C in central and southern regions; b) in extremely warm Aprils, 11-15C in northern regions and 16-20C in central and southern regions. Frosts in the air (decrease of temperature to OC or lower) in the central and southern regions are observed: a) in extremely cold Aprils in 18-39% of the years in most southern and central regions and in 60-100% of the years in frost-prone regions, mostly in the first and second ten-day periods; b) in extremely warm Aprils in 0-14% of the years in most southern and central regions and in 25-40% of the years in frost-prone regions, mostly in the first 10-day period; c) in the northern regions, frosts in the air are observed in extremely cold Aprils in 75-100% of the years and in extremely warm Aprils in 75-91% of the years. The last frosts occur: a) in springs with an extremely cold April at times which mostly are average or close to late in comparison to the mean for Central Asia; b) in springs with an extremely warm April at times which mostly are everage or close to early in comperison to the mean for Central Asia. The monthly precipitation total for most of Central Asia is: a) above or near the norm in extremely cold Aprils, but in certain years in central and southern Card 2/4

ACCESSION NR: AT4016522

regions it is considerably above the norm; less than or near the norm in extremely warm Aprils, but in many years in the central regions it is considerably less than the norm. Extremely cold Aprils are caused by a predominance of three types of synoptic processes of a meridional character: a) processes with active anticyclonic activity over the European SSSR and cyclonic activity over Kazakhstan and Western Siberia; b) processes with active anticyclonic activity over Kazakhstan and Western Siberia. Extremely warm Aprils are caused by four types of synoptic processes, mostly associated with latitudinal circulation, but also with meridional processes in which southerly and southwesterly flow is maintained over Central Asia. If cold processes prevail in winter, the coming April will be extremely cold with a probability of 79%, but if, in addition, there are ultrapolar processes in the sector between 30-90°E in March, the probability increases to 89%. If such processes are not observed in this sector in March the mean monthly April air temperature will be above the norm with a probability of 75%. Temperatures also will be above the April norm, with a probability of 91%, if warm processes prevailed in winter and there were no ultrapolar processes in March. Neither an extremely cold winter nor an extremely warm March should be followed by an extremely cold April in Central Asia. Orig. art. has: 26 tables and 17 figures.

ASSOCIATION: SREDNEAZIATICHESKIY NAUCHNO-ISSLEDOVATELISKIY GIDROMETEOROLOGICHE-SKIY INSTITUT (Central Asian Hydrometeorological Scientific Research Institute)

TAGIYEV, A.

Temporary sectional roads. Stroitel' no.1:29 Ja '61. (MIRA 14:2)

(Railroads, Narrow-gauge)

TAGIYEV, A.B.

Production of Cognac in Shamkhor and Khanlar regions. Za tekh.prcg. 3 no.9:40-42 S '63. (MIRA 16:10)

1. Kirovabadskaya opytnaya stantsiya vinogradarstva i vinodeliya.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

1000年1100年,以中国共和国的地区的基础的

GAZIYAN, N.I.; TAGIYEV, A.E.

Lithophysical characteristics of oil-reservoir rocks of the
Balakhan series of the region of Peschanyy Island. Azerb. neft.
khoz. 38 no.2:5-9 F 159. (MIRA 12:5)

(Peschanyy Island-Petroleum geology)

(Peschanyy Island-Gas, Natural-Geology)

SERGEYEV, L.A.; SHAPIROVSKIY, N.I. [deceased]; BABAYEV, D.Kh.; GANBAROV, Yu.G.; AKHUNDOV, I.D.; TAGIYEV, Z.B.; TAGIYEV, A.I.; ISMAYLOVA, R.I.; UMANOVA, V.A.; GUSEYNOVA, N.N.; ALIZADE, Kh.A.; CHURLIN, V.V.; TOROPOVA, K.M.

First results of the use of the seismic method for the direct prospecting of oil and gas pools in the sea. Dokl. AN Azerb. SSR 20 no.9:27-31 '64. (MIRA 18:1)

l. Institut geologii i razrabotki goryuchkikh iskopayemykh AN SSSR i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

REGEL! A.R.; PAGIYEV, B.G.

Temperature dependence of the effect of a strong electric field in polycrystalline selenium. Fiz. tver. tela 5 nc.10:2914-2921 0 '63. (MIRA 16:11)

1. Institut pelupravodnikov AN SSSR, Leningrad, i Institut fiziki AN Az. SSR, Baku.

ACCESSION NR: AP4028420

5/0181/64/006/004/1001/1005

AUTHORS: Regel', A. R.; Tagiyev, B. G.

TITLE: Effect of bismuth impurities on the electrical conductivity of polycrystalline selenium in strong electrical fields

SOURCE: Fizika tverdogo tela, v. 6, no. 4, 1964, 1001-1005

TOPIC TAGS: semiconductor, selenium, bismuth, pulsed field, Frenkel formula, impurity effect, electric conductivity, electric field

ABSTRACT: Measurements were made with pulsed fields up to  $4\cdot10^4$  V/cm in the temperature interval +20 to -130C. The choice of bismuth as the impurity was based on its use as a coating of selenium in the preparation of the latter as a rectifier on an aluminum base. Results of measurements show that bismuth impurities up to 0.1% by weight increase the electrical conductivity of selenium, but that further increase causes the conductivity to decline. Bismuth impurities diminish the coefficient  $\beta$  in Frenkel's formula  $\sigma = \sigma_{0}e^{-\beta}$ . The observed effects in a strong field, for pure selenium and bismuth-doped selenium, agree

card 1/2

ACCESSION NR: AP4028420

rather well with Frenkel's theory through a wide range of electrical field and of temperature. The effect of bismuth impurities, as with heat treatment, is expressed chiefly in increase in electrical conductivity of the selenium, and the dependence of this effect on the strength of the electrical field is rather weak. The authors conclude that the effect observed in bismuth-doped selenium is associated primarily with change in concentration of current carriers and not with change in mobility. Orig. art. has: 5 figures.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semi-conductors AN SSSR); Institut fiziki AN Azerb. SSR, Baku (Institute of Physics AN Azerb. SSR)

SUBMITTED: 11Sep63

DATE ACQ: 27Apr64

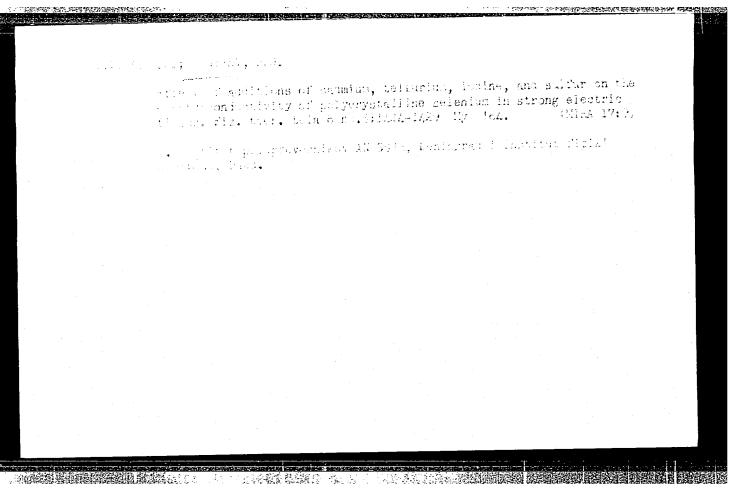
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OTHER: OLO

Card 2/2



electromodicativity of a mixture of amorphod and physialline and annual mixture electric fields. Fig. twee. tela 7 no.3:928-956 Mr '65. (Mira 18:4)

1. Leutiout polyprovalnikov AN SSSA, Leningsei i Institut fiziki AN Amorrayishanskoy SSR, Baku.

# "APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754720001-4

EVIT(1)/EWT(m)/EWP(e)/EWG(m)/EWP(t)/EWP(k)/EWP(z)/EWP(b) Pf-4 RDW/JD ACCESSION NR: 8/0181/65/007/003/0928/0930 AP5006914 AUTHOR: Regel', A. R.; Tagiyev, B. G. TITLE: Electric conductivity of a mixture of amorphous and crystalline selenium in strong electric fields SOURCE: Fizika tverdogo tela, v. 7, no. 3, 1965, 928-930 TOPIC TAGS: selenium, electric conductivity ABSTRACT: The article presents experimental data on the electric conductivity of a mixture of polycrystalline and amorphous selenium in strong electric fields. These data make it possible to estimate more fully the role of the amorphous inclusions in samples of polycrystalline selenium and their effect on the conductivi-The samples were prepared from pulverized thoroughly mixed crystalline and amorphous selenium. The content of the emorphous selenium was 15, 35, and 50 wt. %. Rectangular plates 0.4--1.0 mm thick were prepared from the powder under pressure. The electric conductivity of the mixture was measured under pulsed conditions in strong electric fields up to 5 x 10<sup>4</sup> V/cm. The conductivity of six samples in each

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batch was measured in the temperature interval +20-- -1000, depending on the elec-

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ACCESSION NR: AP5006914

2

tric field intensity. No noticeable change in the amorphous component was observed during the experiment. The measurements have shown that the electric conductivity decreases with increasing content of amorphous selenium. For example, at 10 kV/cm the electric conductivity of the polycrystalline selenium mixed with 0, 15, 35, and 50 wt.% of amorphous selenium was respectively 3 x 10<sup>-1</sup>, 10<sup>-5</sup>, 5 x 10<sup>-6</sup>, and 3 x 10<sup>-6</sup> ohm<sup>-1</sup>cm<sup>-1</sup>. In all the samples the electric conductivity of selenium increased with increasing electric field intensity. The results are discussed from the point of view of Frenkel's theory. It is concluded that the electric conductivity of polycrystalline selenium depends more strongly on the electric field than that of amorphous selenium. The effective activation energy of the carriers decreases with increasing electric field intensity and increases with increasing content of amorphous selenium. This is also in agreement with prevailing notions concerning the role of amorphous inclusions in polycrystalline selenium. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors, AN SSSR); Institut fiziki AN AZSSR, Baku (Physics Institute, AN AZSSR)

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AKHREDOV, G.A.; ZEYNALOV, M.M.; SULTANOV, R.G.; TAGIYEV, E.A.

Correlating cross sections of the producing formation in the Apsheron Peninsula and southeastern Kobystan. Uch.zap. AGU.

Geol.-geog.ser. nc.4:81-88 '60. (MIRA 15:9)

(Apsheron Peninsula-Geology, Stratigraphic) (Kobystan-Geology, Stratigraphic)

TAGIYEV, E.A.

Variation in thickness of the various stratigraphic units of the productive series of the area of Peschanyy Island.

Dokl. AN Azerb. SSR 18 no.2:37-43 '62. (MIRA 15:7)

1. Gosudarstvennyy trest geologo-razvedochnykh predpriyatiy Azerbaydzhanskoy neftyanoy promyshlennosti. Predstavleno akademikom AN AZSSR M.V. Abramovichem. (Peschanyy Island—Geology, Stratigraphic)

ALIYEV, A.K.; TAGIYEV, 2.A.

Some geological data on the new oil- and gas-bearing region in the area of Peschanyy Island. Azerb. neft. khoz. 37 no.7:1-4
J1 '58.

(Apsheron region--Petroleum in submerged lands)

(Apsheron region--Gas, Natural--Geology)

SHARIFOV, E.F.; TAGIYEV, E.F.

Soil conditions and land improvement of industrial premises and problems of landscaping in Sumgait. Izv.AN Azerb.SSR.Ser.biol.i med.nauk no.5:59-67 '62. (https://doi.org/10.1011/10.10

SHAFIROV, L.F.; TAGIYEV, E.F. Mountain-forest Chestnut soils of the oak and hornceam forests in the Shusha Forest Tract. Izv. AN AZe b. Ser. biol. i med. nauk no. (MIRA 17:6)

2:73-73 162.

# TAGIYEV, E. I. ZALKIN, S.L.; TAGIIEV, E.I.; GKL'FGAT, Ya.A., redaktor; REZNIK, A.A., redaktor; TITSKAYA, B.F., redaktor; FOLOSINA, A.S., tekhnicheskiy redaktor. [Dorble shaft drilling method for petroleum and gas well] Dvukhstvol'nce burenie neftianykh i gazovykh skvazhin. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 181 p. (Patroleum-Well-boring) (Gas, Natural)

AID P - 3275

Subject

111 176 -

: USSR/Mining

Card 1/1

Pub. 78 - 5/24

Authors

: Tagiyev, E. I., D. D. Barkan, V. M. Slavskiy, F. F. Voskresenskiy,

G. D. Vyskrebtsov

Title

: Influence of vibrations on the speed of rotary drilling of hard

formations by a three-cutter bit

Periodical

: Neft. khos., v. 33, #9, 20-28, S 1955

Abstract

: At the All-Union Scientific Research Institute of Oil Drilling (VNIIburneft'), tests have been made to deterime the influence of forced vertical vibrations on the drilling speed of bits. An empiric formula has been devised in which the increase in speed of rotary drilling of hard formations by three-cutter bits due to forced vertical vibrations is calculated as a function of the parameters of the vibrator, the kind of drilling operations, the diameter of the bit, and specific properties of the drilled for-

mations. Diagram, charts.

Institution : None

Submitted

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: No date

DESCRIPTION OF SECURITIES SEED SECURITIES SE

ZHIGACH, K.F., professor, otvetstvennyy redaktor; MURAV YEV, I.M., professor, redaktor; TIKHOMIROV, A.A., kandidat ekonomicheskikh nauk, redaktor; YEGOROV, V.I., kandidat ekonomicheskikh nauk, redaktor; CHARYGIN, M.M., professor, redaktor; DUNAYEV, F.F., professor, redaktor; NAMETKIN, N.S., dotsent, redaktor; BIRYUKOV, V.I., dotsent, redaktor; YEGOROV, A.F., dotsent, redaktor; CHARNYY, I.A., professor, redaktor; CHERNOZHUKOV, P.I., professor, redaktor; KUZMAK, Ye.M., professor, redaktor; DOKHNOV, V.N., professor, redaktor; PANCHENKOV, G.M., professor, redaktor; ALMAZOV, N.A., dotsent, redaktor; TAGIYEV, K.I., redaktor; GUREVICH, redaktor; ZHIGACH, K.F., redaktor; DAYEV, G.A., vedushchiy redaktor; GENNAD\*YEVA, I.M., tekhnicheskiy redaktor

[The tenth scientific and technical conference, 1955] Desiataia nauchno tekhnicheskaia konferentsiia, 1955 g. Leningrad, Gos. nauchno-tekhn. 12d-vo neftianci i gorno-toplivnoi lit-ry, Lenin-gradskoe otd-nie, 1956. 167 p. (MIRA 9:7)

1. Moscow. Moskowskiy neftyanoy institut. Nauchnoys studencheskoye obshchestvo

(Petroleum engineering) (Petroleum geology)

"Foring of Fil Wells,"

pance read at the Session of the Acad. Sci. USSE, on Scientific Problems of Automatic Froblems, 15-20 October 1956.

Automatika i telemekhanika, No. 2, p. 192-192, 1957.

policipa

BARKAN, D.D.; VOSKRESENSKIY, F.F.; VYSKREBTSOV, G.D.; SLAVSKIY, V.M.;
TAGIYEV, E.I.

Effect of vibrations on footage drilled by a single bit.
Neft. khoz. 35 no.10:17-20 0 '57.

(Boring machinery--Vibration)

(Boring machinery--Vibration)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

CHERNOZHUKOV, N.I., prof., doktor tekhn.nauk, red.; ZHIGACH, K.F., prof., red.; MURAV'YEV, I.M., prof., red.; TIKHOMIROV, A.A., kand.ekon. nauk, red.; YEGOROV, V.I., kand.ekon.nauk, red.; CHARYGIN, M.M., prof., red.; DUNAYEV, F.F., prof., red.; KUZMAK, Ye.M., prof., red.; CHARNYY, I.A., prof., red.; PANCHENKOV, G.M., prof., red.; DAKHNOV, V.N., prof., red.; NAMETKIN, N.S., doktor khim.nauk, red.; ALMAZOV, N.A., dotsent, red.; VINOGRADOV, V.N., kand.tekhn.nauk, red.; BIRYUKOV, V.I., kand.tekhn.nauk, red.; TAGIYEV, E.I., red.; GUREVICH, V.M., red.; ZAMARAYEVA, K.M., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Petroleum refining; articles] Pererabotka nefti; materialy. Moskva. Gos.nauchno-tekhn.izd-ve neft. i gorno-toplivnoi lit-ry. Vol.2. 1958. (MIRA 12:1)

1. Mezhvuzovskoye soveshchaniye po voprosam novoi tekhniki v neftyanoy premyshlennosti, Moscow, 1956. 2. Moskovskiy neftyanoy institut (for Chernozhukov, Panchenkov).

(Petroleum-Refining)

KUZMAK, Ye.M., prof. doktor tekhn. nauk, red.; TARAN, V.D., prof., doktor tekhn. nauk, red.; ZHIGACH, K.F., prof., red.; MURAV'YEV, I.M., prof., red.; TIKHOMIROV, A.A., kand. ekon. nauk, red.; YEGOROV, V.I., kand. ekon. nauk, red.; CHARYGIN, M.M., prof., red.; DUNAYEV, F.F., prof., red.; CHERNOZHUKOV, N.I., prof., red.; CHARNYY, I.A., prof., red.; PANCHENKOV, G.M., prof., red.; DAKHNOV, V.N., prof., NAMETKIN, N.S., doktor khim. nauk, red.; AIMAZOV, N.A., dots., VINOGRADOV, V.N., kand. tekhn. nauk, red.; BIRYUKOV, V.I., kand. tekhn. nauk, red.; TAGIYEV, E.I., red.; GUREVICH, V.M., red.; GOR'KOVA, A.A., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Proceedings of the conference of technical schools on the problems of new equipment for the petroleum industry] Mezhvuzovskoe soveshchanie po voprosam novoi tekhniki v neftianoi promyshlennosti. 1958.
materialy... Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry. Vol. 3. [Manufacture of petroleum industry equipment] Neftianoe mashinostroenie. 1958. 222 p. (MIRA 11:11)

(Petroleum industry-Equipment and supplies)

TAGIYEV, 611

ZHIGACH, K.F., prof, red.; MURAVIYEV, I.M., prof. doktor tekhn.nauk, red.;
TIKHOMIROV. A.A., kand.ekon.nauk, red.; YEGOROV, V.I., kand.ekon.
nauk, red.; CHARYGIN, M.M., prof., red.; DUNAYEV, F.F., prof., red.;
CHERNOZHUKOV, N.I., prof., red.; KUZMAK, Ye.M., prof., red.;
CHARNYY, I.A., prof., red.; PANCHENKOV, G.M., prof., red.; DAKHNOV,
V.N., prof. doktor geologg-mineralogicheskikh nauk, red.; NAMETKIN,
N.S., doktor khim.nauk, red.; AIMAZOV, N.A., dots., red.; VINOGRADOV,
V.N., kand.tekhn.nauk, red.; BIRYUKOV, V.I., kand.tekhn.nauk, red.;
TAGIYEV, P.I., red.; GUREVICH, V.M., red.; DOBRYNINA, N.P., vedushchiy
red.; MUKHINA, E.A., tekhn.red.

[Proceedings of an interschool conference on problems of new techniques in the petroleum industry] Materialy Mezhvuzovskogo soveshchaniya po voprosam novoy tekhniki v neftyanoy promyshlennosti. Moskva, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry. Vo.1.
[Prospecting and exploitation of oil and gas fields] Razvedka i razrabotka neftianykh i gazovykh mestorozhdenii. 1958. 311 p. (MIRA 11:4)

1. Mezhvuzovskeye soveshchaniye po voprosem novoy tekhniki v neftyanoy promyshlennosti.

(Petroleum engineering) (Gas, Natural--Geology)

sov/93-58-8-5/15

AUTHOR: Tagivev, E. I.; Dunayev, F. F.; Tomashpol'skiy, L. M.;

Sereda, N. G.; and Mordvin, L. N.

TITLE: Increased Efficiency Resulting From the Drilling of

Clusters of Multiple Oil Wells Through Level Type Formations (K voprosu ob effektivnosti sploshnogo razburivaniya mestorozhdeniy ravninnogo tipa kustami

mnogostvol'nykh skvazhin)

Neftyanoye khozyaystvo, 1958, Nr 8, pp. 16-23 (USSR) PERIODICAL:

ABSTRACT: The All-Union conference on dual well drilling and

inclined well operation, called by the Gosplan of the USSR, started in January and continued through

February 1958. The conference noted that the extension of multiple well drilling in the Soviet Union is of great importance since this type of well completion will reduce capital investment and the consumption of metal and

labor. Slepyan, Milovidov, Shandin, Ovanesov, and Mezhlumov, representing the Councils of the National Economy of the Bashkir ASSR, Azerbaydzhan SSR, Kuybyshev Oblast, and Stalingrad Oblast reported that they are

Card 1/3

Increased Efficiency Resulting (Cont.)

sov/93-58-8-5/15

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preparing for expansion of the multiple well drilling method in their respective regions. The authors state that the increased importance of multiple well drilling calls for a more thorough analysis of the problems raised by M. G. Osipov and A. A. Kortatstsi in their article published in Neftyanoye khozyaystvo, 1957, Nr 8. The authors also note that the effect of multiple well drilling through level type formations had been studied at the Moskovskiy neftyanoy institut im. akad. I. M. Gubkina (Moscow Petroleum Institute im. Acad. I. M. Qubkin) by V. P. Banatov, G. I. Zhukeva, L. G. Kasatkina, and N. L. Kolyubakin under the guidance of E. I. Taglyev and F. F. Dunayev. Drilling data provided by the Al'met'yevburneft' and Tatburneft' of the Tatar ASSR show that the multiple well drilling method produces better results than the vertical well drilling method (Tables 1-3). Fig. 1 presents a well distribution scheme for multiple well drilling at the Yuzhno-Romashkino oilfield of the Tatar ASSR. This scheme will be used for oil well drilling during the Sixth Five Year Plan. Tables 4-6 show that the drilling of multiple

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Increased Efficiency Resulting (Cont.)

wells according to this scheme of well distribution will lead to a reduction in capital investment and to a desirable decrease in time and labor consumption. The authors conclude that: 1) drilling clusters of dual wells through level type formations will reduce capital investment, labor and metal consumption, 2) the accumulated data on dual well drilling and on the operation of clusters of inclined wells a level type formations make it possible to recommend an expansion of this type of drilling, and 3) wide application of dual well drilling depends on the development of special drilling and operating equipment, and on the solution of individual technological problems. There are 6 tables and 1 figure.

1. Petroleum--Production 2. Well imilling--Josts

Card 3/3

TAGIYEV, E. I., IOANNESYAN, R. A., THEBIN, F. A., GUSMAN, M. I., OSTROVSKIY, A. P., TITKOV, N. I., SHMAREV, A. T., GELFGAT, Y. A., MININ, A. A., and SHASHIN, V. D.

"Progress of Turbodrilling and Studying New Methods of Drilling Wells in the USSR."

Report Submitted at the Fifth World Petroleum Congress, 30 May - 5 June 1959. New York City.

TAGIYEV, E.I.; KICHIGIN, A.V.

Effect of certain parameters of vibropercussion machines on rock desintegration speed. Izv. vys. ucheb. zav.; neft' i gaz 2 no.7:17-24
159. (MIRA 12:12)

l. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M. Gubkina. (Boring machinery)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

TAGIYEV, E.I.; KICHIGIN, A.V.

Wear resistance of simple bits when using vibropercussion drilling machinery. Izv.vys.ucheb.zav.; neft' i gaz 2 no.ll: 31-36 159.

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M.Gubkina. (Boring machinery)

ZHIGACH, K.F., prof., otv.red.; MURAV'YEV, I.M., prof., red.; TIKHOMIROV,

A.A., kand.ekonom.nauk; red.; VINOGRADOV, V.N., kand.tekhn.nauk,

red.; SIDORENKO, N.V., red.; BRENTS, A.D., red.; CHARYGIN, M.M.,

prof., red.; DUNAYEV, F.F., prof., red.; CHARNYY, I.A., prof.,

red.; CHERNOZHUKOV, N.I., prof., red.; KUZMAK, Ye.M., prof., red.;

DAKHNOV, V.N., prof., red.; PANCHENKOV, G.M., prof., red.; NAMETKIN,

N.S., prof., red.; TAGIYEV, E.I., prof., red.; BIRYUKOV, V.I., kand.

tekhn.nauk, red.; YEGOROV, V.I., kand.tekhn.nauk, red.; ALMAZOV,

N.A., dotsent, red.; GUREVICH, V.M., red.; ISAYEVA, V.V., vedushchiy

red.; POLOSINA, A.S., tekhn.red.

[Development of the gas industry of the U.S.S.R.; from the proceedings of the Interuniversity Scientific Conference on the Problems of the Gas Industry] Mezhvuzovskaia nauchnaia konferentsiia po voprosam gazovoi promyshlennosti. Razvitie gazovoi promyshlennosti SSSR; materialy. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gornotoplivnoi lit-ry, 1960. 405 p. (MIRA 13:11)

1. Mezhvuzovskaya nauchnaya konferentsiya po voprosam gazovoy promyshlennosti. 2. Glavgaz SSSR (for Brents). 3. Moskovskiy institut neftekhimicheskoi i gazovoi promyshlennosti im. akad. Gubkina (for Charygin, Charnyy).

(Ges industry)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754720001-4"

VOSKRESENSKIY, Fedor Fedorovich; KICHIGIN, Anatoliy Valentinovich; SLAV-SKIY, Vasiliy Mikhaylovich; SLAVSKIY, Yuriy Nikolayevich; TAGIYEV, Eyyub Izmailovich; DUBROVINA, N.D., vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Vibration and combination drilling] Vibratsionnoe i udarno-vrashchatel'noe burenie. By F.F.Voskresenskii i dr. Moskva, Gos. nauchnotekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 243 p. (MIRA 14:9)

(Boring)

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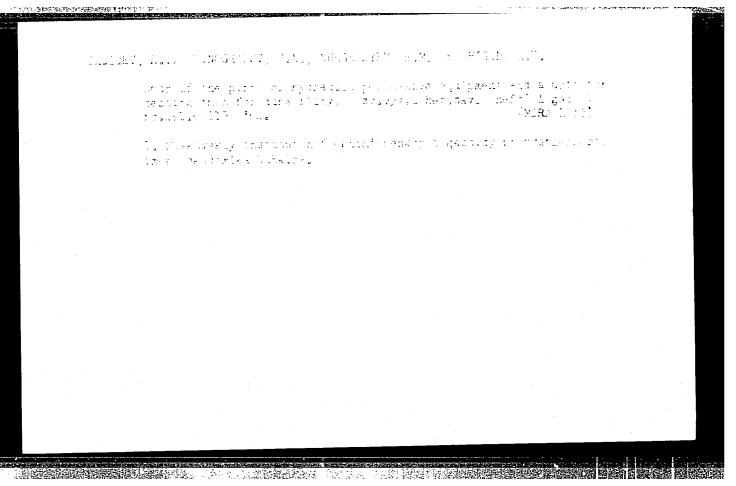
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. Heak oskiy institut maftekhimitneskey i gazavey prozymlennesti

meet ukulumika Gubkine.

"Problems of deep-drilling"

report to be submitted for the 6th World Petroleum Congress,
Frankfurt am Main, W. Germany, 19-26 Jun 63.



IOANNESYAN, R.A., GREMAN, M.T., MAGIYEV, E.I.

Development of turbine drilling in the U.S.S.R. Neft.

khoz. 42 no.9/10:107-114 S-0 '64.

(MIRA 17 12)

TAGIYEV, Eyyub Izmaylovich

[Ferrussive-rotary drilling of wells] Udarno-vrashchatel'nee burenie skvazhin. Moskva, Nedra, 1965. 165 p.

(MIRA 19:1)

ACC NR. AR6020787

SOURCE CODE: UR/0044/66/000/002/V053/V054

AUTHOR: Shirinov, K. F.; Tagiyev, F. A.

TITLE: The transformation of a calculation algorithm and the accuracy of calculations

SOURCE: Ref. zh. Matem, Abs. 2V347

REF SOURCE: Tr. Vychisl. tsentra. AN AzerbSSR, v. 3, 1965, 17-19

TOPIC TAGS: algorithm, information processing, data processing, calculation

ABSTRACT: It is shown that in the case when the information is presented by multidigit numbers, the study of the accuracy reduces to the study of operations or, more exactly, pseudo-operations. The concept of normal and abnormal schemes consisting of a sequence of operators and predicates is introduced. The normality of the scheme may be re-established by transformation operators. An estimate is given for the normal scheme which allows conclusions concerning the expediency of a count of binary accuracy. [Translation of abstract] Bibliography of 2 titles. Yu. Bayskovskiy

SUB CODE: 12,09

Card 1/1

IDC: 518.5:681.142

IJP(c) L 17706-66 EWT(d)

ACC NR: AP6005607

SOURCE CODE: UR/0233/65/000/003/0060/0067

AUTHOR: Tagiyev, F. A.

ORG: none

TITLE: Approximate solution of the Tricomi problem in a general case for the Lavrent'yev-Bitsadze equation

16,44,55 SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekhnicheskikh i matematicheskikh nauk, no. 3, 1965, 60-67

TOPIC TAGS: differential equation, approximation calculation, partial differential equation, Tricomi problem

ABSTRACT: The author proves several theorems concerning approximate solutions of

$$\Delta U = \frac{\partial^2 U}{\partial x^2} + \frac{\partial^2 U}{\partial y^2} = 0, \tag{1}$$

$$\Delta U = \frac{\partial^2 U}{\partial x^2} + \frac{\partial^2 U}{\partial y^2} = 0, \qquad (1)$$

$$U \equiv \alpha'(x) \beta(x) U(x, +0) - \alpha(x) \beta(x) \frac{\partial U}{\partial x}^{(x,+0)} + \alpha^2 \frac{\partial U}{\partial y} = F, \qquad (2)$$

$$U|_{\sigma} = \varphi(s). \qquad (3)$$

$$a = \varphi(s).$$
 (3)

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ACC NR: AP6005607

where  $\sigma$  is a Jordan curve and  $D_1$  is the elliptic part of the mixed region  $D_{\bullet}$ . He shows uniqueness of the solution of an approximating difference scheme, as well as its convergence uniformly to the true solution. Orig. art. has: 30 formulas and 1 figure.

SUB CODE: 12/ SUBM DATE: 25Dec64/ ORIG REF: 007

Card 2/2 nst

S/877/62/001/000/001/005 D201/D308

AUTHORS:

Shirinov, K.F. and Tagiyev, F.A.

TITLE:

The problem of transformation of design algorithm

SOURCE:

Akademiya nauk Azerbaydzhanskoy SSR. Vychislitel'nyy

tsentr. Trudy, v. 1, 1962, 13-16

operator system, the final row of which consists of operators (A<sub>K</sub>) predicates and auxiliary symbols, which is transformed by means of a special operator called the transform-operator A<sub>tr</sub>. The transform-operator controls automatically the proper operation of the system and transforms it in accordance with the content of predicates. The working of A<sub>tr</sub> is illustrated by the example in which it is introduced into the row in order to control the conditions required for the operation of subsequent operators. The content of the transform-operator depends on the content of the row.

Card 1/1

ACC NR: AT6027266 SOURCE CODE: UR/2877/65/000/003/0072/0084

AUTHOR: Tagiyev, F. A.

ORG: none

TITLE: On the numerical solution of the Lavrent'yev-Bitsadze problem in a multiply connected region

SOURCE: AN AzerbSSR. Vychislitel'nyy tsentr. Trudy, v. 3. Baku, 1965, 72-84

TOPIC TAGS: partial differential equation, gas dynamics, boundary value problem, numerical method

ABSTRACT: A numerical solution is given for the mixed second-order linear equation

 $Lu = \frac{\partial^2 u}{\partial x^2} + \operatorname{Sgn} y \frac{\partial^2 u}{\partial y^2} = 0, \tag{1}$ 

under the following boundary conditions:

 $u \mid_{\sigma_1} = \varphi_1, \ u \mid_{\sigma_2} = \varphi_2 \tag{2}$ 

 $\mu|_{L_1} = \psi, \ \mu|_{L_2} = \psi_1. \tag{3}$ 

In the elliptic part of the region D,  $D_1$ , an algebraic system of equations must be solved. This system is derived, and a theorem is proved on its solvability and on the uniqueness of the solution. A convergence theorem is stated and proved. The solution for the hyperbolic subregion  $D_2$  may be done by a quadrature. This solution is

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